

FIG.1 PRIOR ART

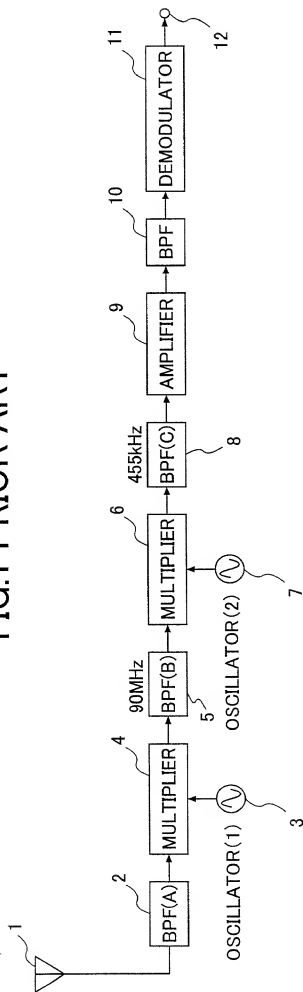


FIG.2A PRIOR ART

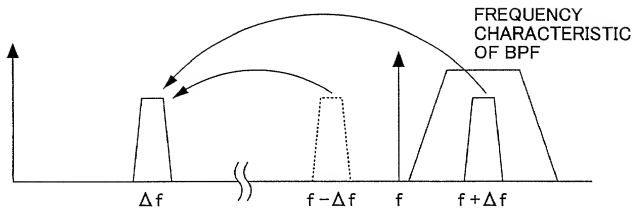


FIG.2B PRIOR ART

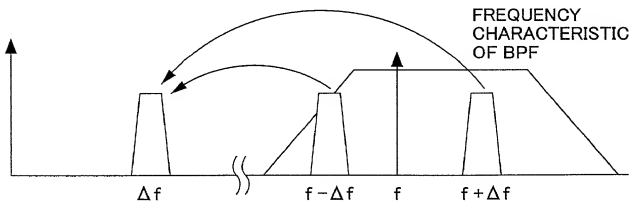


FIG.3 PRIOR ART

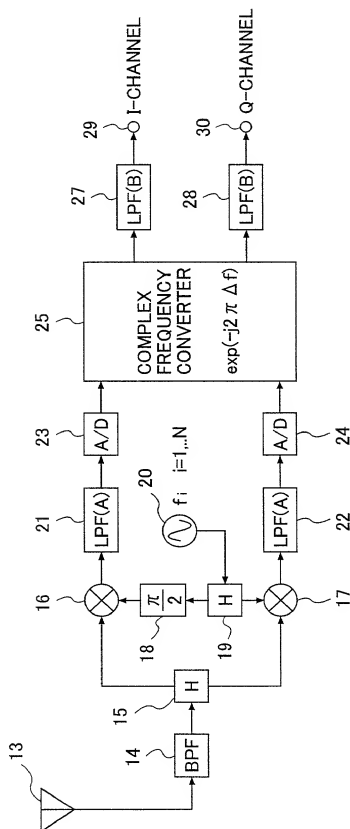


FIG.4

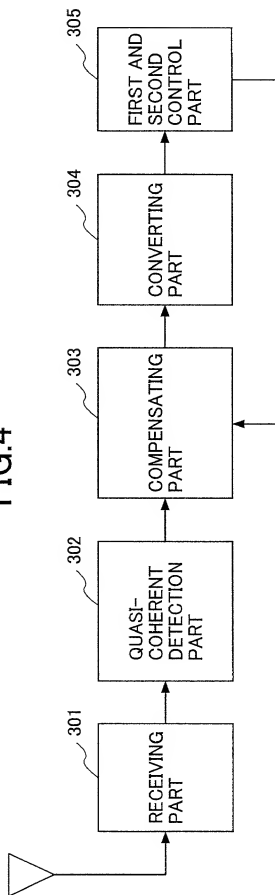
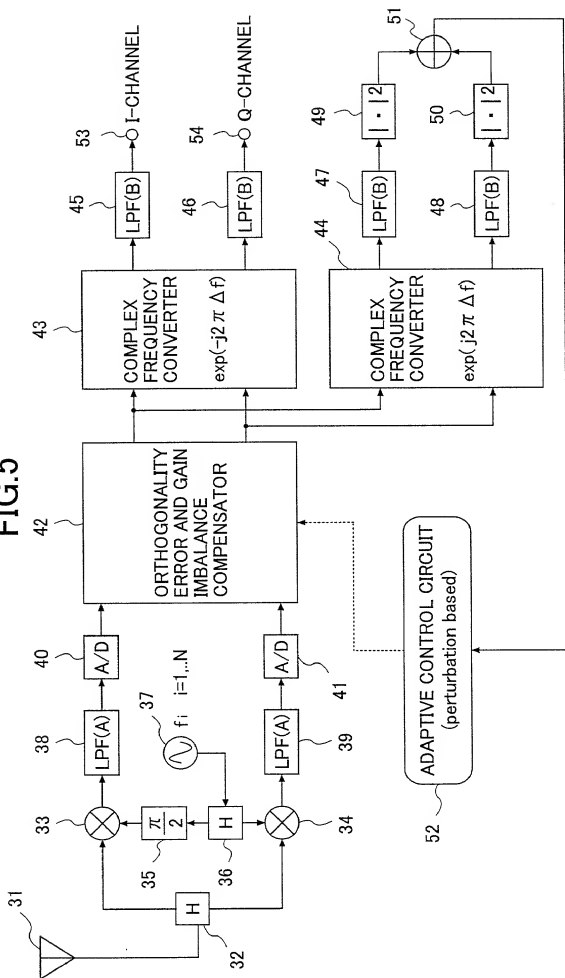


FIG.5



LPF(A):WIDE BAND ANALOG FILTER OF RF STAGE
LPF(B):NARROW BAND DIGITAL FILTER OF BB STAGE

FIG. 10 is a block diagram of a neural network layer. It shows an input node 55 connected to a summation node 59. A second input node 56 is connected to a multiplication node 57. The output of node 57 is connected to the summation node 59. A third input node 60 is connected to a multiplication node 58. The output of node 58 is connected to the summation node 59. The output of node 59 is connected to an output node 62. A bias input node 61 is connected to the multiplication node 58. A weight input node 63 is connected to the multiplication node 57. The weights are labeled W_1 and W_Q .

FIG.7A

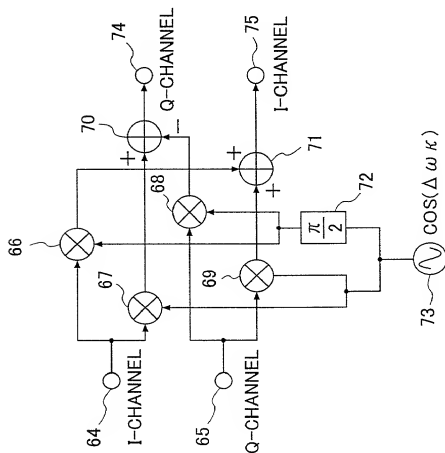


FIG.7B

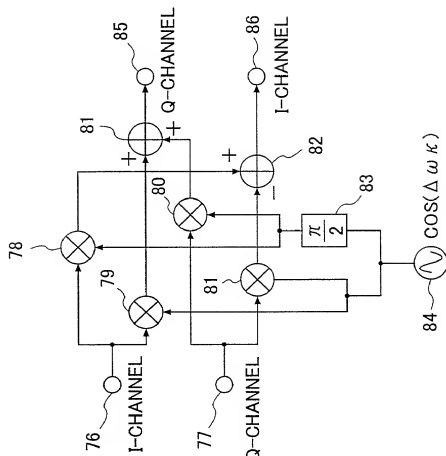


FIG. 8

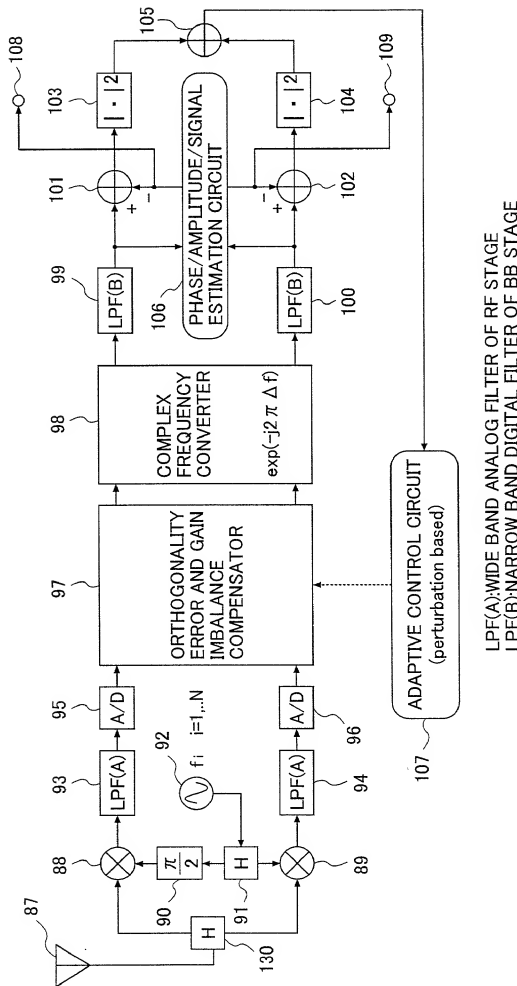


FIG.9

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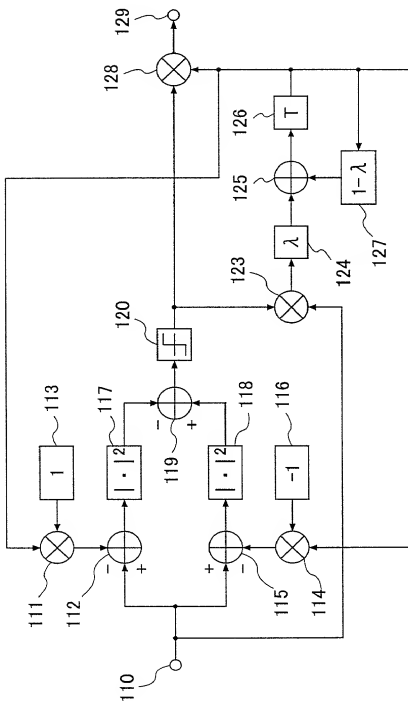


FIG. 10

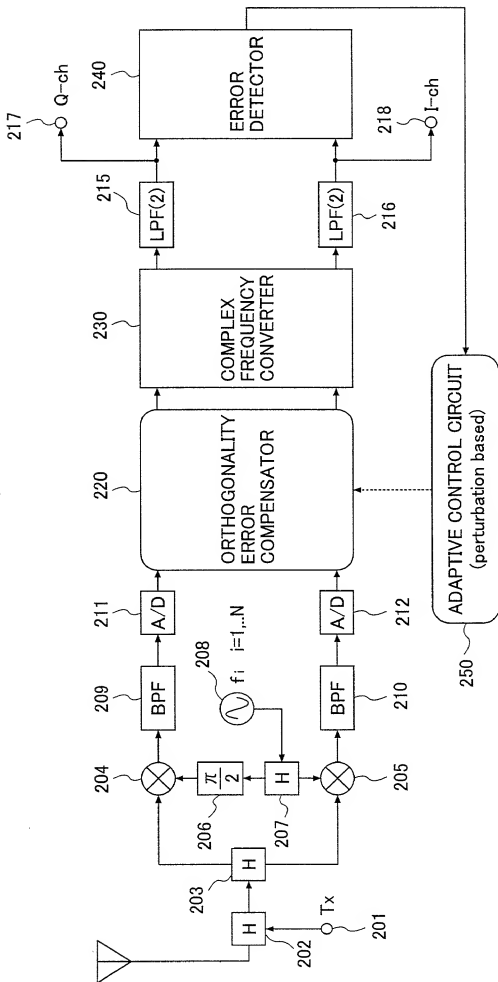


FIG.11

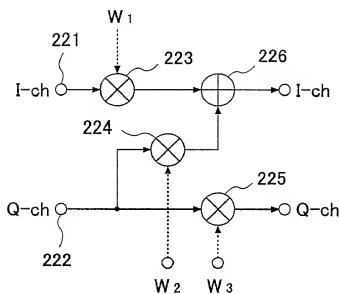


FIG.12

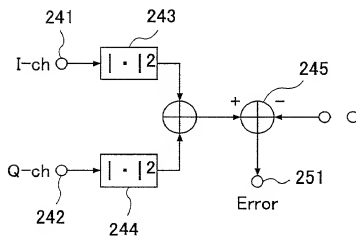
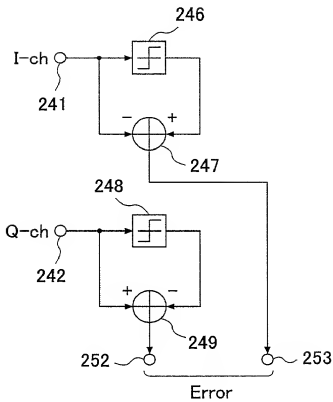


FIG.13



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FIG.14

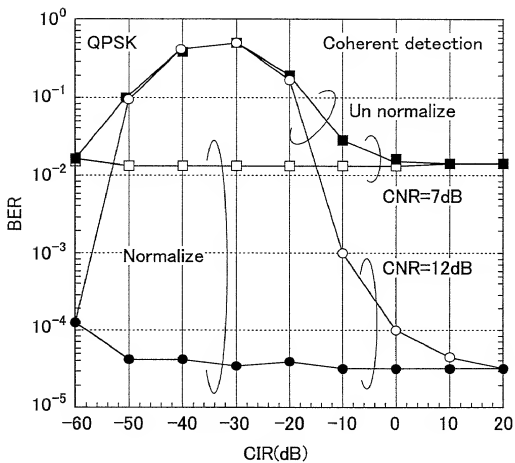
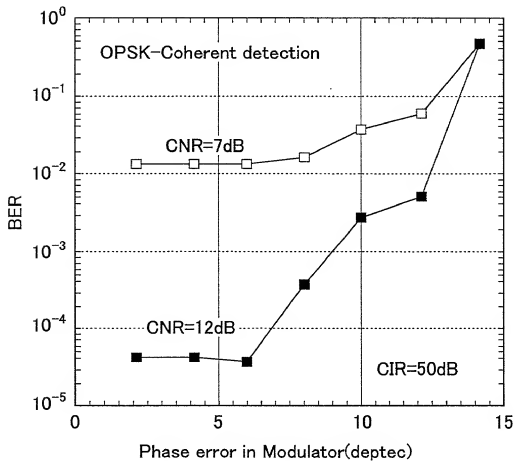


FIG.15



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FIG.16

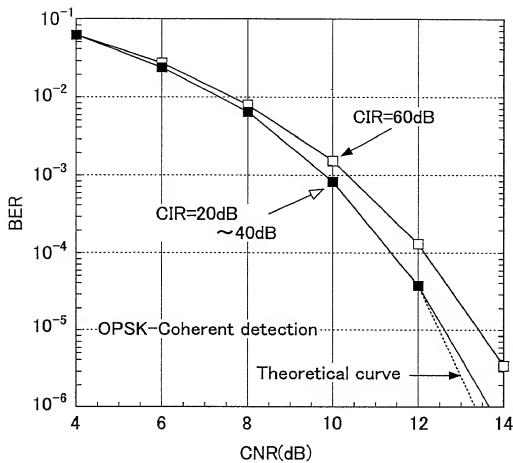


FIG.17

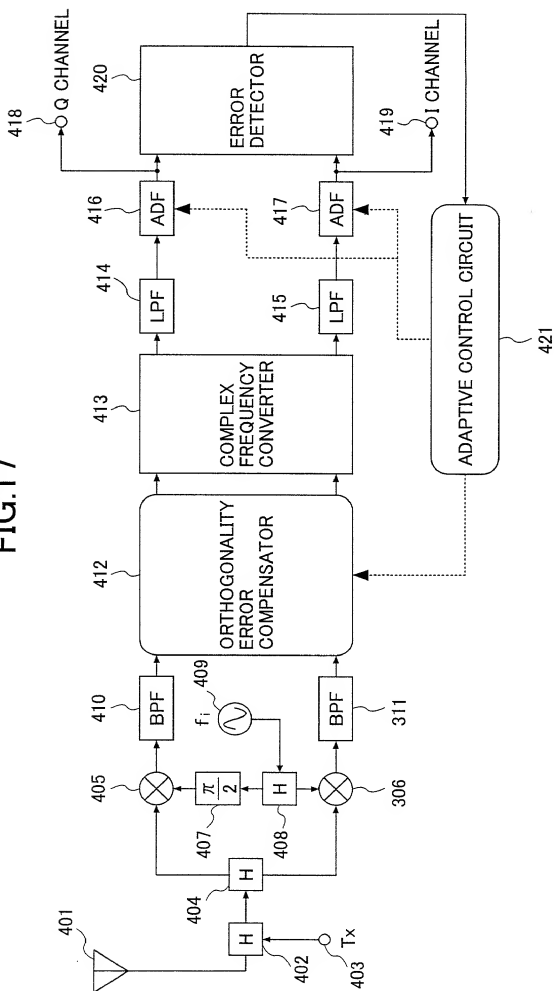
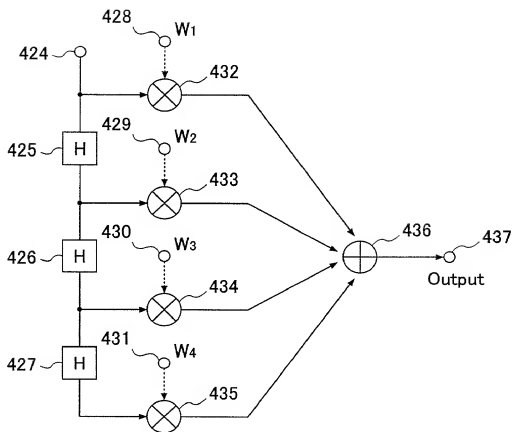


FIG.18



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FIG.19

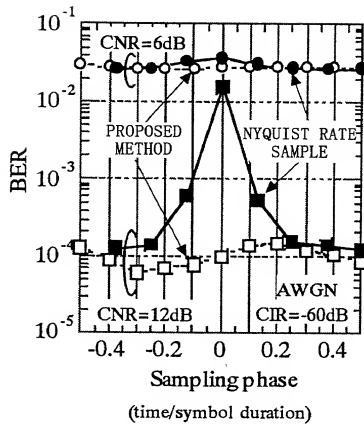


FIG.20

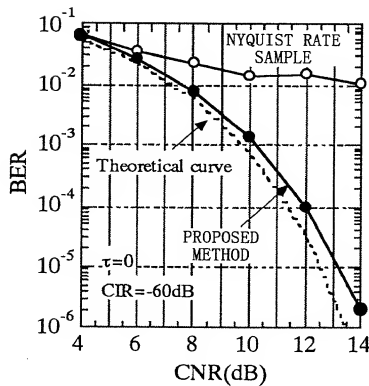


FIG.21

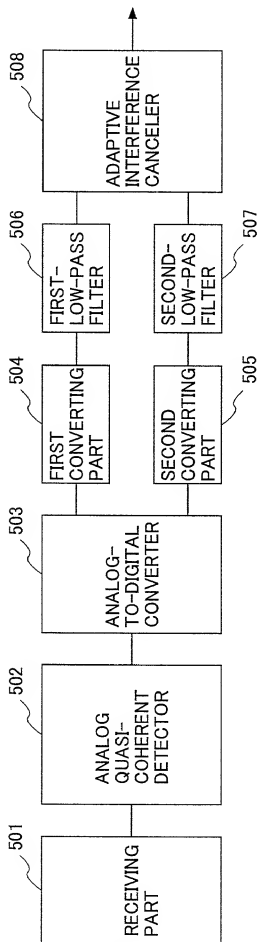


FIG.22

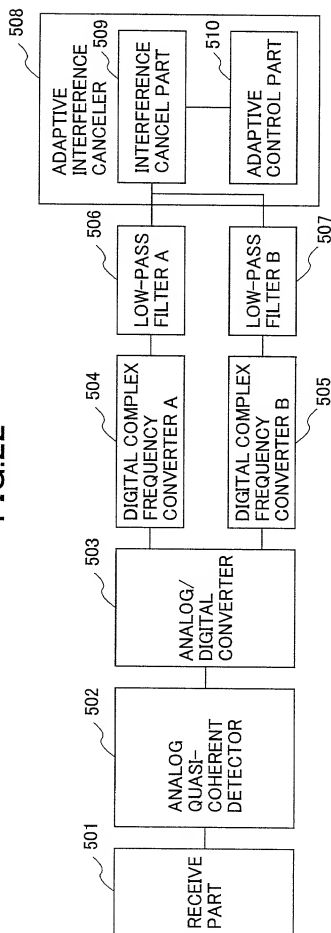


FIG.23

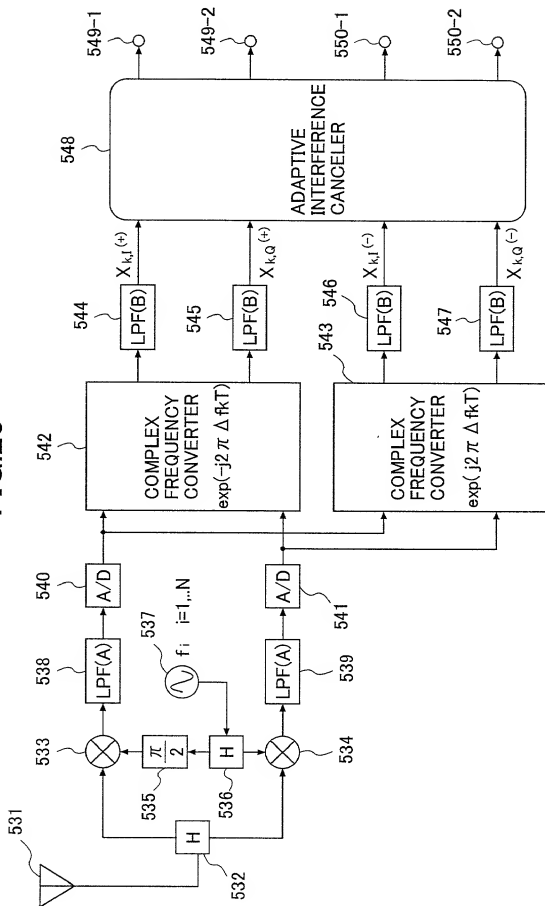
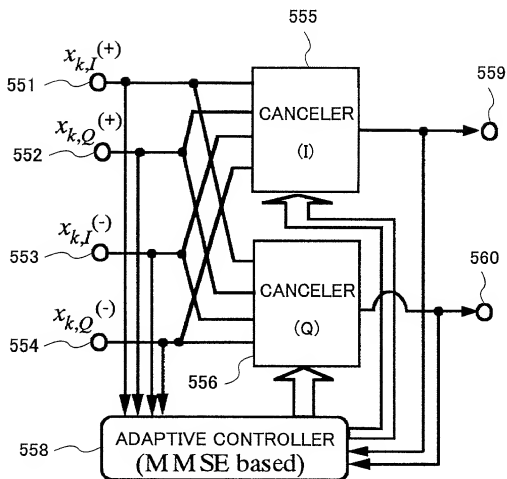


FIG.24



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FIG.25

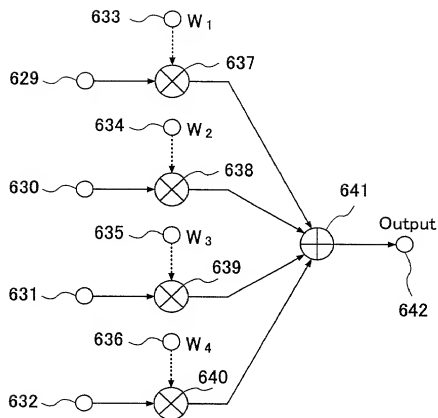


FIG.26A

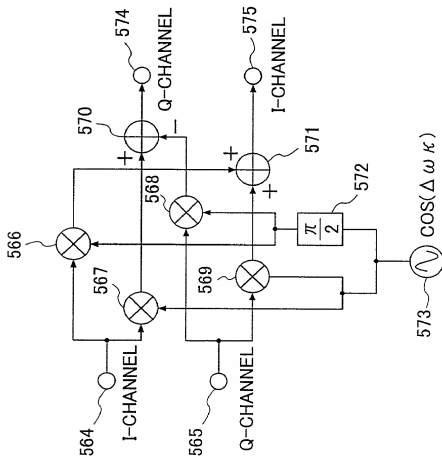


FIG.26B

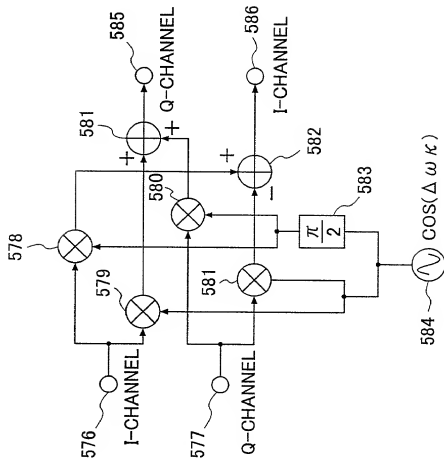


FIG.27

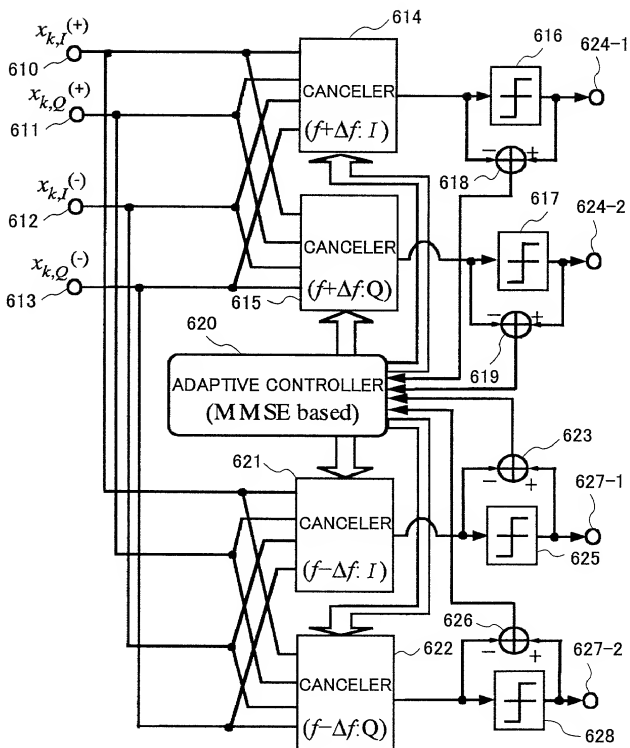


FIG.28

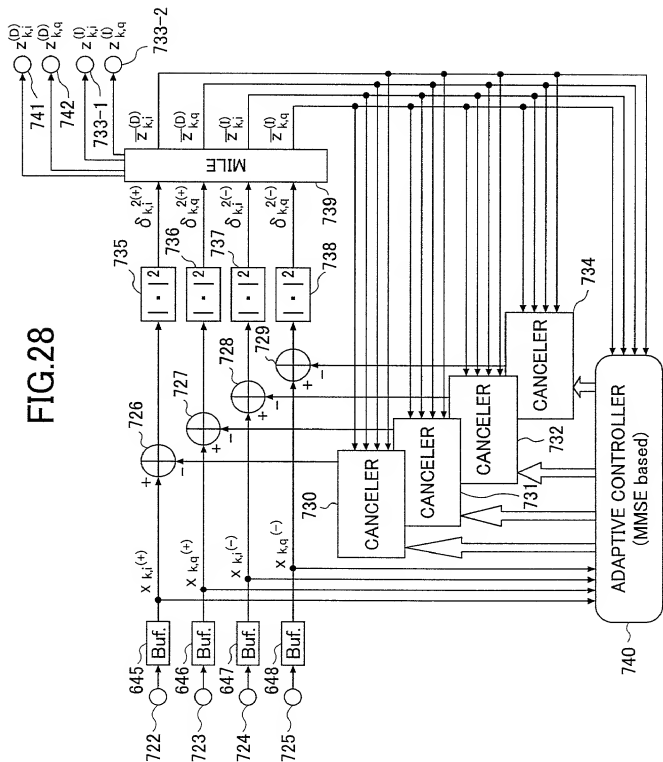


FIG.29

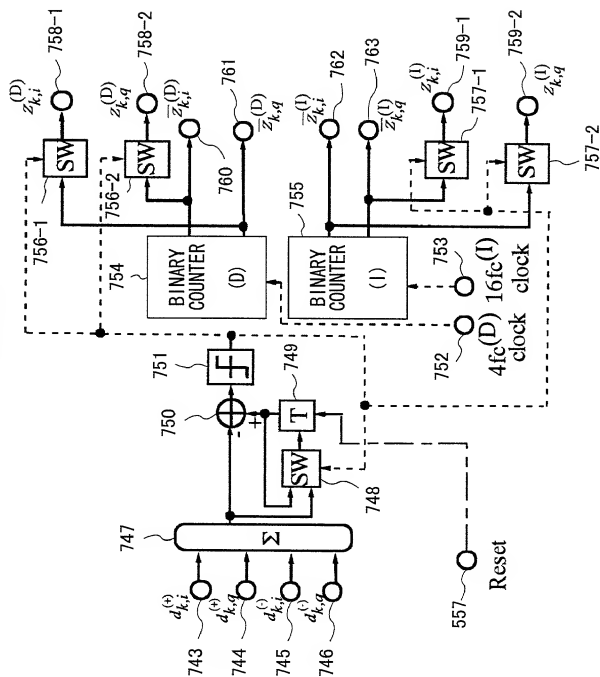


FIG.30

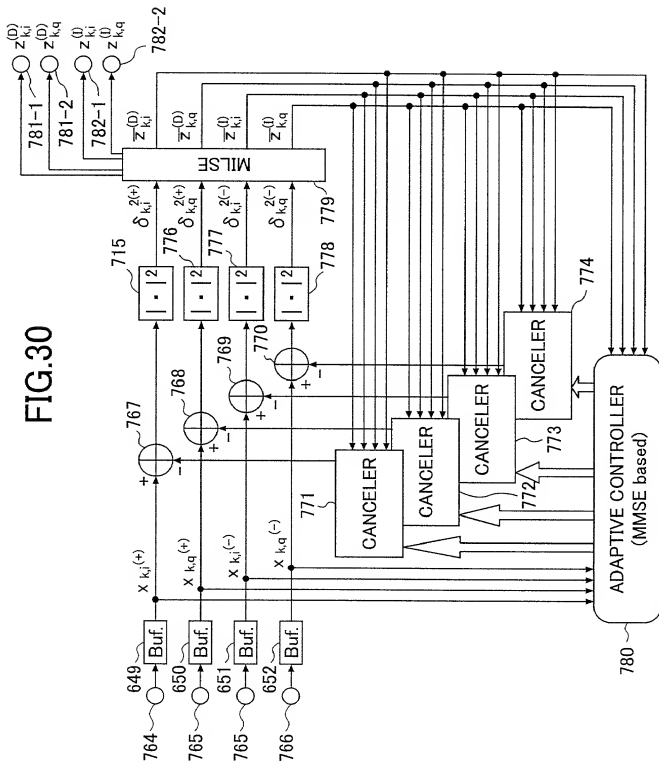


FIG.31

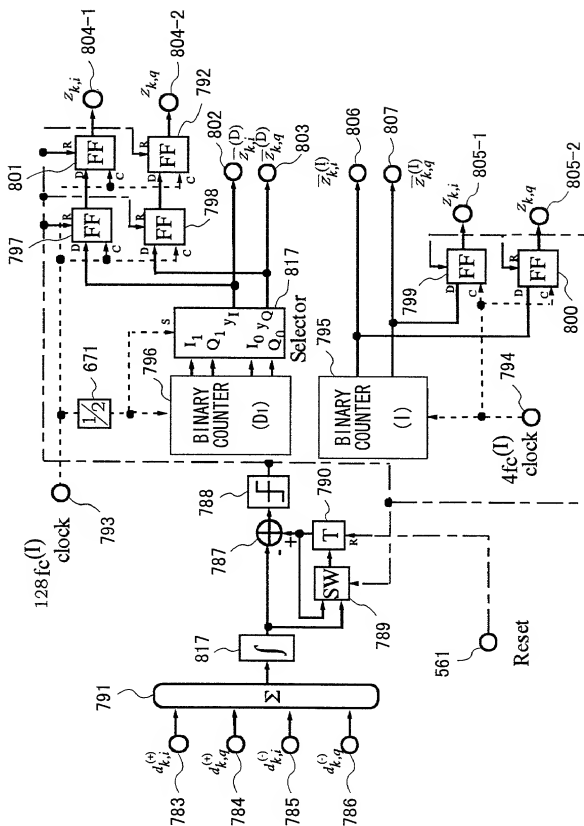


FIG. 32

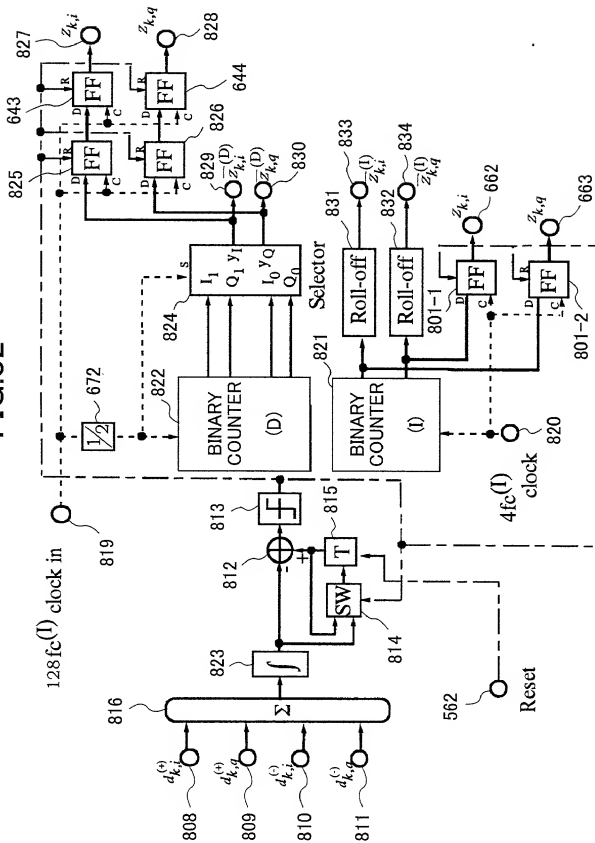


FIG.33

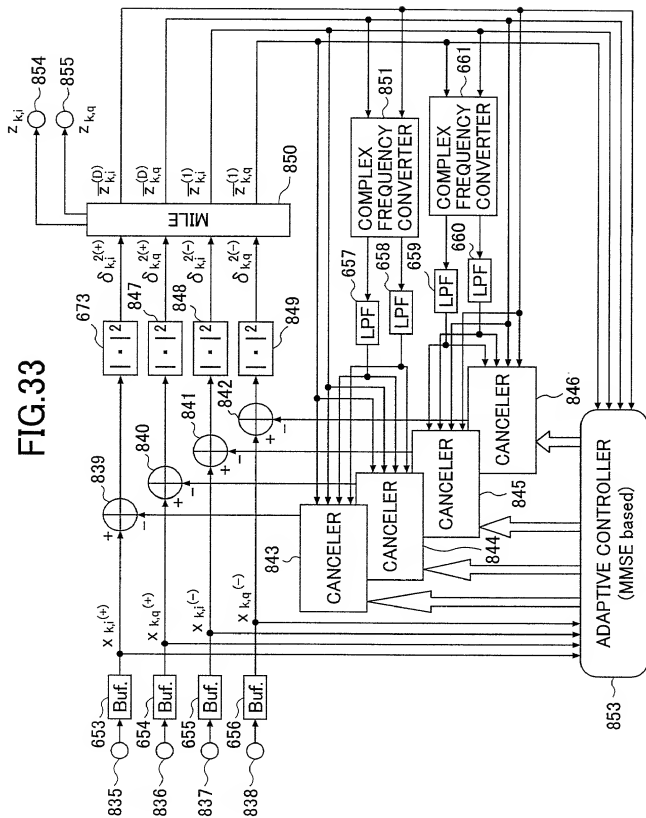


FIG.34

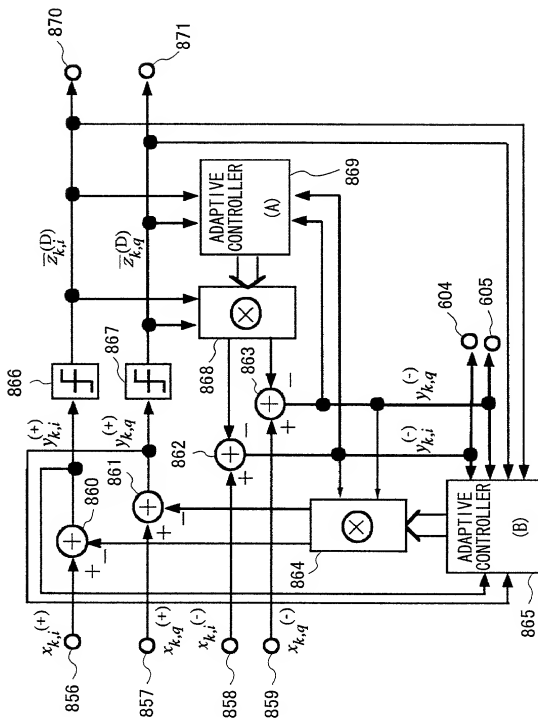


FIG.35

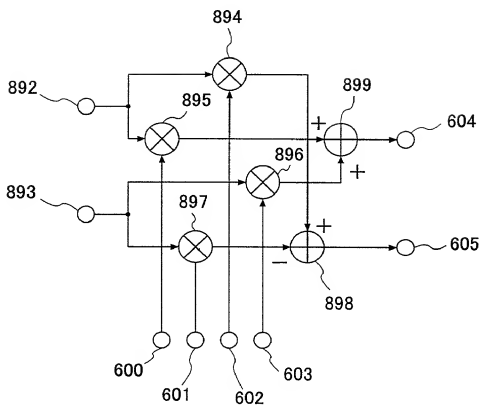
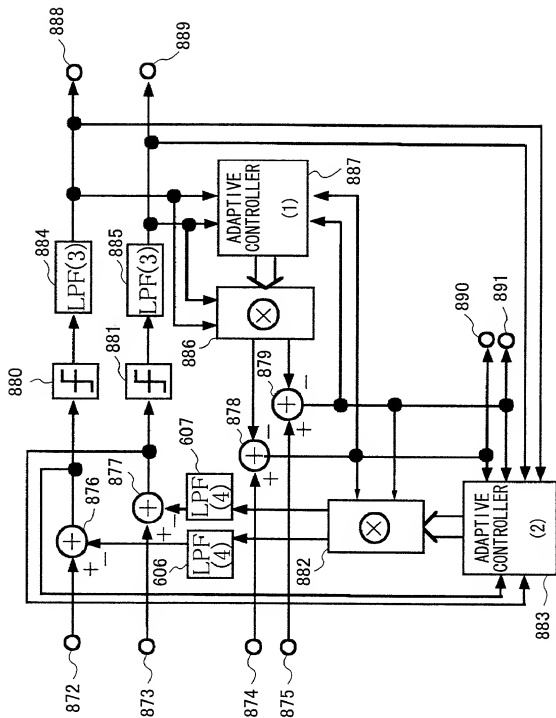


FIG. 35

FIG.36



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FIG.37

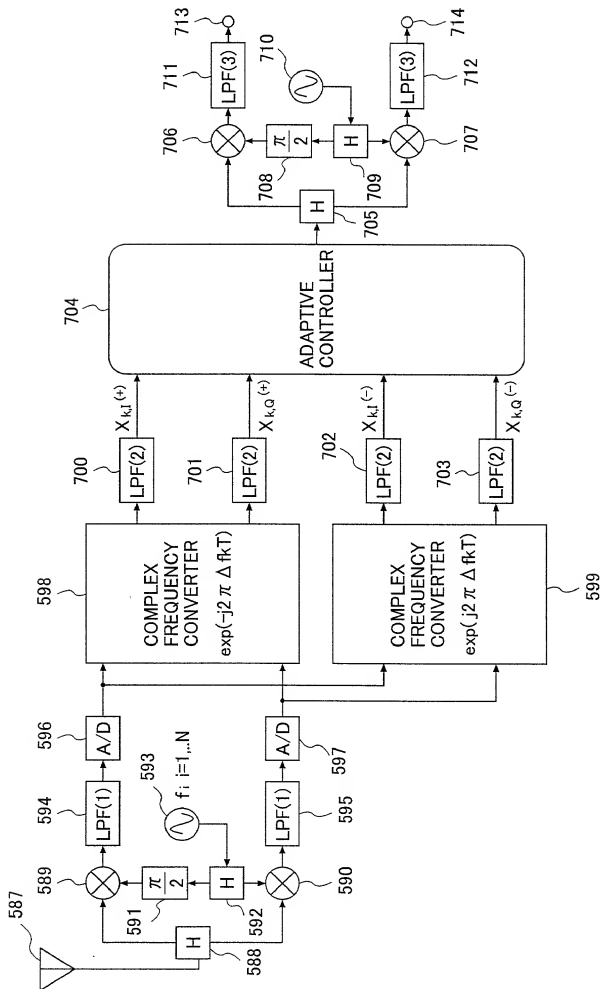


FIG.38

